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C.E. Nelson, J.W. Elam, M.A. Cameron, M.A. Tolbert and S.M. George, Desorption of H_2O from a hydroxylated single-crystal α-Al_2O_3(0001) surface 416 (1998) 341

Laser induced thermal desorption (LITD)

C.E. Nelson, J.W. Elam, M.A. Cameron, M.A. Tolbert and S.M. George, Desorption of H_2O from a hydroxylated single-crystal α-Al_2O_3(0001) surface 416 (1998) 341

Molecule–solid reactions

A. Gross, C.-M. Wei and M. Scheffler, Poisoning of hydrogen dissociation at Pd (100) by adsorbed sulfur studied by ab-initio quantum dynamics and ab-initio molecular dynamics 416 (1998) L1095

Non-linear optical methods

T. Yuzawa, T. Shioda, J. Kubota, K. Onda, A. Wada, K. Domen and C. Hirose, Polarization characteristics from SFG spectra of clean and regulatively oxidized Ni(100) surfaces adsorbed by propionate and formate 416 (1998) L1090

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T. Yuzawa, T. Shioda, J. Kubota, K. Onda, A. Wada, K. Domen and C. Hirose, Polarization characteristics from SFG spectra of clean and regulatively oxidized Ni(100) surfaces adsorbed by propionate and formate 416 (1998) L1090

Photoelectron spectroscopy

T. Nagatomi, T. Kawano, H. Fujii, E. Kusumoto and R. Shimizu, New energy loss functions for 1 keV electrons incident on clean and oxygen-adsorbed Si(111) surfaces 416 (1998) 184

S.-W. Yu, R. David, N. Irmer, B. Schmiedeskamp, N. Müller, U. Heinzmann and N.A. Cherepkov, Determination of phase differences of transition matrix elements from Pt(110) by means of spin-resolved photoemission with circularly and linearly polarized radiation 416 (1998) 396

X-ray photoelectron spectroscopy

A. Baraldi, S. Lizzit, M.G. Ramsey and F.P. Netzer, Direct observation of C_2N_2 uptake and dissociation on Pd(110) by fast high-resolution XPS 416 (1998) 214

M. Ikeda, T. Maruoka and N. Nagashima, Reaction of Si(100) surfaces with C_2H_4: XPS and LEED studies 416 (1998) 240

A.C. Michel, L. Lianos, J.L. Rousset, P. Delichère, N.S. Prakash, J. Massardier, Y. Jugnet and J.C. Bertolini, Surface characterization and reactivity of Pd_xNi_{92}(111) and (110) alloys 416 (1998) 288

A.B.M.O. Islam, K. Asai, K.K. Lim, T. Tambo and C. Tatsuyama, Interface formation between layered-compound GaS and GaAs(111)A surface 416 (1998) 295

P. Liu, T. Kendelewicz, G.E. Brown, Jr., G.A. Parks and P. Pianetta, Reaction of water with vacuum-cleaved CaO(100) surfaces: an X-ray photoemission spectroscopy study 416 (1998) 326

H. Liu and R.J. Hamers, An X-ray photoelectron spectroscopy study of the bonding of unsaturated organic molecules to the Si(001) surface 416 (1998) 354

Synchrotron radiation photoelectron spectroscopy

P.D. Cobden, B.E. Nieuwenhuys, F. Esch, A. Baraldi, G. Comelli, S. Lizzit and M. Kiskinova, A *fast* X-ray photoelectron spectroscopy study of the NO–H_2 reaction over Rh(533): understanding hysteresis and oscillations in the reaction rate 416 (1998) 264

Photon absorption spectroscopy

P. Castrucci, R. Gunnella, N. Pinto, M. De Crescenzi, M. Sacchi, G. Dufour and F. Rochet, Evidence of ordered phase of Ge–Si heterostructures by X-ray absorption spectroscopy at Ge L_3 edge 416 (1998) 466

Near edge extended X-ray absorption fine structure (NEXAFS)

P. Castrucci, R. Gunnella, N. Pinto, M. De Crescenzi, M. Sacchi, G. Dufour and F. Rochet, Evidence of ordered phase of Ge–Si heterostructures by X-ray absorption spectroscopy at Ge L_3 edge 416 (1998) 466

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P. Castrucci, R. Gunnella, N. Pinto, M. De Crescenzi, M. Sacchi, G. Dufour and F. Rochet, Evidence of ordered phase of Ge–Si heterostructures by X-ray absorption spectroscopy at Ge L_3 edge 416 (1998) 466

Scanning tunneling microscopy

K.F. Kelly and N.J. Halas, Determination of α and β site defects on graphite using C_{60}-adsorbed STM tips 416 (1998) L1085

L. Huang, S.J. Chey and J.H. Weaver, Metastable structures and critical thicknesses: Ag on Si(111)-7 × 7 416 (1998) L1101

F. Bocquet and S. Gauthier, A study of the low-temperature submonolayer deposition of Pb on Cu(100) 416 (1998) 1

Y.J. Kim, C. Westphal, R.X. Ynzunza, Z. Wang, H.C. Galloway, M. Salmeron, M.A. Van Hove and C.S. Fadley, The growth of iron oxide films on Pt(111): a combined XPD, STM, and LEED study 416 (1998) 68

M. Wilms, P. Broekmann, C. Stuhlmann and K. Wandelt, In-situ STM investigation of adsorbate structures on Cu(111) in sulfuric acid electrolyte 416 (1998) 121

Y. Nakamura, H. Kawai and M. Nakayama, One-dimensional character of the dimer structure of S_B terrace on a Si(001) surface 416 (1998) 167

J. Braun, H. Rauscher and R.J. Behm, Adsorption of disilane on Si(111)-(7 × 7) and initial stages of CVD growth 416 (1998) 226

G. Costantini, S. Rusponi, R. Gianotti, C. Boragno and U. Valbusa, Temperature evolution of nanostructures induced by Ar^+ sputtering on Ag(001) 416 (1998) 245

R.A. Wolkow, G.P. Lopinski and D.J. Moffatt, Resolving organic molecule–silicon scanning tunneling microscopy features with molecular orbital methods 416 (1998) L1107

M. Sporn, E. Platzgummer, E.L.D. Gruber, M. Schmid, W. Hofer and P. Varga, A quantitative LEED analysis of the oxygen-induced p(3 × 1) reconstruction of $Pt_{25}Rh_{75}$(100) 416 (1998) 384

A.A. Marchenko, V.V. Cherepanov, D.T. Tarashchenko, Z.I. Kazantseva and A.G. Naumovets, A low work function substrate for STM studies of objects with poor tunneling transparency: lanthanum hexaboride (100) 416 (1998) 460

Thermal desorption spectroscopy

C.E. Nelson, J.W. Elam, M.A. Cameron, M.A. Tolbert and S.M. George, Desorption of H_2O from a hydroxylated single-crystal α-Al_2O_3(0001) surface 416 (1998) 341

K.C. Wong, B.G. McBurnett, R.D. Culp, A.H. Cowley and J.G. Ekerdt, Homolysis versus β-hydride elimination in the decomposition of trialkylgallium on GaAs(100) 416 (1998) 480

Work function measurements

D.A. Gorodetsky, Yu.P. Melnik, D.P. Proskurin, V.K. Sklyar, V.A. Usenko and A.A. Yas'ko, Barium films on molybdenum(110): LEED and EELS study 416 (1998) 255

A.A. Marchenko, V.V. Cherepanov, D.T. Tarashchenko, Z.I. Kazantseva and A.G. Naumovets, A low work function substrate for STM studies of objects with poor tunneling transparency: lanthanum hexaboride (100) 416 (1998) 460

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Y.J. Kim, C. Westphal, R.X. Ynzunza, Z. Wang, H.C. Galloway, M. Salmeron, M.A. Van Hove and C.S. Fadley, The growth of iron oxide films on Pt(111): a combined XPD, STM, and LEED study 416 (1998) 68

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S.A. Salman and Ş. Katırcıoğlu, Adsorption of water on stepped Si(100) surface 416 (1998) 9

M. Wilms, P. Broekmann, C. Stuhlmann and K. Wandelt, In-situ STM investigation of adsorbate structures on Cu(111) in sulfuric acid electrolyte 416 (1998) 121

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L.K. Verheij and M.B. Hugenschmidt, On the mechanism of the hydrogen–oxygen reaction on Pt(111) 416 (1998) 37

A.C. Michel, L. Lianos, J.L. Rousset, P. Delichère, N.S. Prakash, J. Massardier, Y. Jugnet and J.C. Bertolini, Surface characterization and reactivity of Pd_8Ni_{92}(111) and (110) alloys 416 (1998) 288

Chemisorption

A. Gross, C.-M. Wei and M. Scheffler, Poisoning of hydrogen dissociation at Pd (100) by adsorbed sulfur studied by ab-initio quantum dynamics and ab-initio molecular dynamics 416 (1998) L1095

J. Braun, H. Rauscher and R.J. Behm, Adsorption of disilane on Si(111)-(7 × 7) and initial stages of CVD growth 416 (1998) 226

Ph. Sonnet, L. Stauffer, H. Ezzehar and C. Minot, Interpretation of the photoemission spectra of Pb/Si(111)-(7 × 7) in the initial stages of the Pb chemisorption: a theoretical study 416 (1998) 274

R.A. Wolkow, G.P. Lopinski and D.J. Moffatt, Resolving organic molecule–silicon scanning tunneling microscopy features with molecular orbital methods 416 (1998) L1107

H. Liu and R.J. Hamers, An X-ray photoelectron spectroscopy study of the bonding of unsaturated organic molecules to the Si(001) surface 416 (1998) 354

N.A. Booth, R. Davis, D.P. Woodruff, D. Chrysostomou, T. McCabe, D.R. Lloyd, O. Schaff, V. Fernandez, S. Bau, K.-M. Schindler, R. Lindsay, J.T. Hoeft, R. Terborg, P. Baumgärtel and A.M. Bradshaw, CN coordination in the adsorption system Ni(110)c(2 × 2)–CN: an unexpected geometry 416 (1998) 448

X.M. Zheng and J. Zeng, Hydrogen chemisorption on a boron-terminated diamond (100) surface: an ab initio study 416 (1998) 472

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H. Liu and R.J. Hamers, An X-ray photoelectron spectroscopy study of the bonding of unsaturated organic molecules to the Si(001) surface 416 (1998) 354

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K. Franke, H. Huelz and M. Weihnacht, Stress-induced depolarization in PZT thin films, measured by means of electric force microscopy 416 (1998) 59

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S. Stoyanov, New type of step bunching instability at vicinal surfaces in crystal evaporation affected by electromigration 416 (1998) 200

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S.-W. Yu, R. David, N. Irmer, B. Schmiedeskamp, N. Müller, U. Heinzmann and N.A. Cherepkov, Determination of phase differences of transition matrix elements from Pt(110) by means of spin-resolved photoemission with circularly and linearly polarized radiation 416 (1998) 396

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L. Huang, S.J. Chey and J.H. Weaver, Metastable structures and critical thicknesses: Ag on Si(111)-7 × 7 416 (1998) L1101

F. Bocquet and S. Gauthier, A study of the low-temperature submonolayer deposition of Pb on Cu(100) 416 (1998) 1

Y.J. Kim, C. Westphal, R.X. Ynzunza, Z. Wang, H.C. Galloway, M. Salmeron, M.A. Van Hove and C.S. Fadley, The growth of iron oxide films on Pt(111): a combined XPD, STM, and LEED study 416 (1998) 68

A.A. Shklyaev, M. Shibata and M. Ichikawa, Ge islands on Si(111) at coverages near the transition from two-dimensional to three-dimensional growth 416 (1998) 192

A.B.M.O. Islam, K. Asai, K.K. Lim, T. Tambo and C. Tatsuyama, Interface formation between layered-compound GaS and GaAs(111)A surface 416 (1998) 295

Growth

L. Huang, S.J. Chey and J.H. Weaver, Metastable structures and critical thicknesses: Ag on Si(111)-7 × 7 416 (1998) L1101

F. Bocquet and S. Gauthier, A study of the low-temperature submonolayer deposition of Pb on Cu(100) 416 (1998) 1

F. Thibaudau, Two-dimensional island density in homoepitaxy on Si(111)7 × 7 416 (1998) L1118

Ion bombardment

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A.B.M.O. Islam, K. Asai, K.K. Lim, T. Tambo and C. Tatsuyama, Interface formation between layered-compound GaS and GaAs(111)A surface 416 (1998) 295

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A.A. Shklyaev, M. Shibata and M. Ichikawa, Ge islands on Si(111) at coverages near the transition from two-dimensional to three-dimensional growth 416 (1998) 192

F. Thibaudau, Two-dimensional island density in homoepitaxy on Si(111)7 × 7 416 (1998) L1118

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Photoelectron emission

S.-W. Yu, R. David, N. Irmer, B. Schmiedeskamp, N. Müller, U. Heinzmann and N.A. Cherepkov, Determination of phase differences of transition matrix elements from Pt(110) by means of spin-resolved photoemission with circularly and linearly polarized radiation 416 (1998) 396

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A. Gross, C.-M. Wei and M. Scheffler, Poisoning of hydrogen dissociation at Pd (100) by adsorbed sulfur studied by ab-initio quantum dynamics and ab-initio molecular dynamics 416 (1998) L1095

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L.K. Verheij and M.B. Hugenschmidt, On the mechanism of the hydrogen–oxygen reaction on Pt(111) 416 (1998) 37

J. Braun, H. Rauscher and R.J. Behm, Adsorption of disilane on Si(111)-(7 × 7) and initial stages of CVD growth 416 (1998) 226

P.D. Cobden, B.E. Nieuwenhuys, F. Esch, A. Baraldi, G. Comelli, S. Lizzit and M. Kiskinova, A *fast* X-ray photoelectron spectroscopy study of the NO–H_2 reaction over Rh(533): understanding hysteresis and oscillations in the reaction rate 416 (1998) 264

P.K. Stefanov, Y. Ohno, T. Yamanaka, Y. Seimiya, K. Kimura and T. Matsushima, Reaction dynamics of catalytic CO oxidation on a Pt(113) surface 416 (1998) 305

H. Liu and R.J. Hamers, An X-ray photoelectron spectroscopy study of the bonding of unsaturated organic molecules to the Si(001) surface 416 (1998) 354

X.M. Zheng and J. Zeng, Hydrogen chemisorption on a boron-terminated diamond (100) surface: an ab initio study 416 (1998) 472

K.C. Wong, B.G. McBurnett, R.D. Culp, A.H. Cowley and J.G. Ekerdt, Homolysis versus β-hydride elimination in the decomposition of trialkylgallium on GaAs(100) 416 (1998) 480

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L.K. Verheij and M.B. Hugenschmidt, On the mechanism of the hydrogen–oxygen reaction on Pt(111) 416 (1998) 37

F. Nieto, C. Uebing and V. Pereyra, The influence of surface reconstruction on the collective motion of adsorbed atoms 416 (1998) 152

S. Stoyanov, New type of step bunching instability at vicinal surfaces in crystal evaporation affected by electromigration 416 (1998) 200

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Surface relaxation and reconstruction

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T. Kato, Y. Saigo, M. Uchibe, H. Tochihara and W. Shimada, Cell model of Si(111)7 × 7 structure 416 (1998) 112

F. Nieto, C. Uebing and V. Pereyra, The influence of surface reconstruction on the collective motion of adsorbed atoms 416 (1998) 152

Y. Nakamura, H. Kawai and M. Nakayama, One-dimensional character of the dimer structure of S_B terrace on a Si(001) surface 416 (1998) 167

M. Sporn, E. Platzgummer, E.L.D. Gruber, M. Schmid, W. Hofer and P. Varga, A quantitative LEED analysis of the oxygen-induced p(3 × 1) reconstruction of $Pt_{25}Rh_{75}$(100) 416 (1998) 384

M. Sporn, E. Platzgummer, S. Forsthuber, M. Schmid, W. Hofer and P. Varga, The accuracy of quantitative LEED in determining chemical composition profiles of substitutionally disordered alloys: a case study 416 (1998) 423

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S.A. Salman and Ş. Katırcıoğlu, Adsorption of water on stepped Si(100) surface 416 (1998) 9

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M. Sporn, E. Platzgummer, E.L.D. Gruber, M. Schmid, W. Hofer and P. Varga, A quantitative LEED analysis of the oxygen-induced p(3 × 1) reconstruction of $Pt_{25}Rh_{75}$(100) 416 (1998) 384

M. Sporn, E. Platzgummer, S. Forsthuber, M. Schmid, W. Hofer and P. Varga, The accuracy of quantitative LEED in determining chemical composition profiles of substitutionally disordered alloys: a case study 416 (1998) 423

Surface structure, morphology, roughness, and topography

A. Sugawara, K. Fujieda and N. Otsuka, Continuous variation in modulation period of charge-induced reconstruction of GaAs(001) surface 416 (1998) L1079
L. Huang, S.J. Chey and J.H. Weaver, Metastable structures and critical thicknesses: Ag on Si(111)-7 × 7 416 (1998) L1101
F. Bocquet and S. Gauthier, A study of the low-temperature submonolayer deposition of Pb on Cu(100) 416 (1998) 1
Y.J. Kim, C. Westphal, R.X. Ynzunza, Z. Wang, H.C. Galloway, M. Salmeron, M.A. Van Hove and C.S. Fadley, The growth of iron oxide films on Pt(111): a combined XPD, STM, and LEED study 416 (1998) 68
T. Kato, Y. Saigo, M. Uchibe, H. Tochihara and W. Shimada, Cell model of Si(111)7 × 7 structure 416 (1998) 112
A.A. Shklyaev, M. Shibata and M. Ichikawa, Ge islands on Si(111) at coverages near the transition from two-dimensional to three-dimensional growth 416 (1998) 192
G. Costantini, S. Rusponi, R. Gianotti, C. Boragno and U. Valbusa, Temperature evolution of nanostructures induced by Ar^+ sputtering on Ag(001) 416 (1998) 245
D.A. Gorodetsky, Yu.P. Melnik, D.P. Proskurin, V.K. Sklyar, V.A. Usenko and A.A. Yas'ko, Barium films on molybdenum(110): LEED and EELS study 416 (1998) 255
Ph. Sonnet, L. Stauffer, H. Ezzehar and C. Minot, Interpretation of the photoemission spectra of Pb/Si(111)-(7 × 7) in the initial stages of the Pb chemisorption: a theoretical study 416 (1998) 274
G.F. Cerofolini and L. Meda, A theory of multilayer adsorption on rough surfaces in terms of clustering and melting BET piles 416 (1998) 403
N.A. Booth, R. Davis, D.P. Woodruff, D. Chrysostomou, T. McCabe, D.R. Lloyd, O. Schaff, V. Fernandez, S. Bau, K.-M. Schindler, R. Lindsay, J.T. Hoeft, R. Terborg, P. Baumgärtel and A.M. Bradshaw, CN coordination in the adsorption system Ni(110)c(2 × 2)–CN: an unexpected geometry 416 (1998) 448
X.M. Zheng and J. Zeng, Hydrogen chemisorption on a boron-terminated diamond (100) surface: an ab initio study 416 (1998) 472

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F. Nieto, C. Uebing and V. Pereyra, The influence of surface reconstruction on the collective motion of adsorbed atoms 416 (1998) 152

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T. Balster, V.M. Polyakov, H. Ibach and J.A. Schaefer, A study of surface band bendings and charge densities of SiC(001) 2 × 1 and c(2 × 2) by high-resolution electron-energy-loss spectroscopy 416 (1998) 177

Phonons

I.Yu. Sklyadneva, G.G. Rusina and E.V. Chulkov, Vibrational states on vicinal surfaces of Al, Ag, Cu and Pd 416 (1998) 17
T. Balster, V.M. Polyakov, H. Ibach and J.A. Schaefer, A study of surface band bendings and charge densities of SiC(001) 2 × 1 and c(2 × 2) by high-resolution electron-energy-loss spectroscopy 416 (1998) 177

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T. Balster, V.M. Polyakov, H. Ibach and J.A. Schaefer, A study of surface band bendings and charge densities of SiC(001) 2 × 1 and c(2 × 2) by high-resolution electron-energy-loss spectroscopy 416 (1998) 177
D.A. Gorodetsky, Yu.P. Melnik, D.P. Proskurin, V.K. Sklyar, V.A. Usenko and A.A. Yas'ko, Barium films on molybdenum(110): LEED and EELS study 416 (1998) 255

Thermal desorption

P.K. Stefanov, Y. Ohno, T. Yamanaka, Y. Seimiya, K. Kimura and T. Matsushima, Reaction dynamics of catalytic CO oxidation on a Pt(113) surface 416 (1998) 305
C.E. Nelson, J.W. Elam, M.A. Cameron, M.A. Tolbert and S.M. George, Desorption of H_2O from a hydroxylated single-crystal α-Al_2O_3(0001) surface 416 (1998) 341
K.C. Wong, B.G. McBurnett, R.D. Culp, A.H. Cowley and J.G. Ekerdt, Homolysis versus β-hydride elimination in the decomposition of trialkylgallium on GaAs(100) 416 (1998) 480

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A.A. Marchenko, V.V. Cherepanov, D.T. Tarashchenko, Z.I. Kazantseva and A.G. Naumovets, A low work function substrate for STM studies of objects with poor tunneling transparency: lanthanum hexaboride (100) 416 (1998) 460

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T. Yuzawa, T. Shioda, J. Kubota, K. Onda, A. Wada, K. Domen and C. Hirose, Polarization characteristics from SFG spectra of clean and regulatively oxidized Ni(100) surfaces adsorbed by propionate and formate 416 (1998) L1090